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Notice of Allowability	Application No.	Applicant(s)	
	10/044,207	MONI ET AL.	
	Examiner	Art Unit	
	Juan A. Torres	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment - After Non-Final Rejection filed on 10/25/2006.
2. ☒ The allowed claim(s) is/are 1-3, 5-21, 23-40 and 42-61.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>8-23-2006</u>. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jen C. Jenkins on 11/13/2006.

The application has been amended as follows:

a) In Claim 1 line 6 the recitation "whether the macroblock is infra or non-infra and, for each non-infra macroblock, one or more" is changed to "whether the macroblock is intra or non-intra and, for each non-intra macroblock, one or more" (emphasis added by the Examiner).

b) In Claim 19 line 6 the recitation "whether the macroblock is infra or non-infra and, for each non-infra macroblock, one or more" is changed to "whether the macroblock is intra or non-intra and, for each non-intra macroblock, one or more" (emphasis added by the Examiner).

c) In Claim 33 line 6 the recitation "whether the macroblock is infra or non-infra and, for each non-infra macroblock, one or more" is changed to "whether the macroblock is intra or non-intra and, for each non-intra macroblock, one or more" (emphasis added by the Examiner).

d) In Claim 39 line 9 the recitation "whether the macroblock is infra or non-infra and, for each non-infra macroblock, one or more" is changed to "whether the

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macroblock is intra or non-intra and, for each non-intra macroblock, one or more”
(emphasis added by the Examiner).

e) In Claim 43 line 2 the recitation “claim 41” is changed to “claim 39” (emphasis added by the Examiner).

f) In Claim 52 line 10 the recitation “whether the macroblock is infra or non-infra and, for each non-infra macroblock, one or more” is changed to “whether the macroblock is intra or non-intra and, for each non-intra macroblock, one or more”
(emphasis added by the Examiner).

g) In Claim 58 line 6 the recitation “whether the macroblock is infra or non-infra and, for each non-infra macroblock, one or more” is changed to “whether the macroblock is intra or non-intra and, for each non-intra macroblock, one or more”
(emphasis added by the Examiner).

The following is an examiner’s statement of reasons for allowance: claims 1-3, 5-21, 23-40 and 42-61 are allowed because the references cited fail to teach, as applicant has, decoding an incoming video stream that includes at least one B frame and a plurality of macroblocks, each macroblock having parameters that include at least a type flag indicating whether the macroblock is intra or non-intra and, for each non-intra macroblock, one or more motion vectors, wherein the parameters of the incoming video stream are extracted from the incoming video stream and used in generating a new video stream; spatially reducing a size of images of the incoming video stream horizontally and vertically by a selected factor, and such that the at least one B frame is considered during the spatially reducing images; mapping each of the plurality of

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macroblocks to at least one macroblock in the new video stream; determining a macroblock type for each macroblock of the new video stream, wherein the macroblock type is determined by applying a weighted mean rounded value determined from the type flags of only the macroblocks of the incoming video stream that map to a particular macroblock of the new video stream; and generating a the new video stream that includes spatially reduced images using one or more of the parameters extracted from the incoming video stream, and at least the macroblock type of macroblocks of the new video stream, wherein at least one of the parameters corresponds to the at least One B frame, wherein less than all of the parameters of the incoming video stream are re-computed for the new video stream, and wherein the spatially reduced images in the new video stream include at least one B frame, as the applicant has claimed.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Juan A. Torres whose telephone number is (571) 272-3119. The examiner can normally be reached on Monday-Friday 9:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Juan Alberto Torres
11-13-2006


TEMESGHER GHEBREYESAE
PRIMARY EXAMINER